SBR no. 56 | 15-16

Original/Duplicate/Triplicate

P.W.G. 17 — 1st and final Bill

CONTRACT CERTIFICATE

Reference pages 159 & 170

Division: Yelahanka — Sub division: Yelahanka New Town — Date

Bills received No — Date — Sub-divisional / Divisional / Head of account — Cash book vr No — Date

VMK/DGR No. 116 Date 26.8.15

Scheduled Docket No

Name of work(as per sanctioned estimate) :- NAME OF WORK :Drilling of borewells and providing pump and motors to Allalasandra SC colony Someshwaranagara and Sharada Nagara in ward no 04

Work code:004-15-000054

Name of contractor and full address :- K Ravikumar

Reference to agreement No :- 119 — Estimated cost :20.00 — W.O.No:119 dt:05/03/2015

Certified that the measurments were taken by me on 24/8/15 and recorded on pages 101017 to 101047 of measurment book No 1011 and the work is satisfactorily executed by the contractor.

Signature of contractor — Assistant Engineer — EE

Certified that the measurments were taken by me on 24/8/15 and recorded correct. The work is satisfactorily concluded. Certified that the quantities of materials shown in column 3 of account II have been actually brought to site of work and the contractor has not previously received any advance on this security. These materials are of any imperishable nature and are required by the contractor for immidiate use on the work in connection with items for which rates finished work have been agreed upon A formal agreement signed and executed by the contractor is recorded in divisional office.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

II MEMORANDUM OF PAYMENT

1) Total value of work done or supplies as per A/c within		
2) Deduct amount to be held in reserve being-----percent Rs----------%	Balance---	
3)		
4) Deduct payments		
a) Amount of previous payment as in divisional/sub divisional cash book vr No----------dated----------S D No----------Amount	Bill amount	19,61,531-00
	I.T.	1,22,408-00
	ST	19,615-00
	MT	78,460-00
	LWF	15,615-00
	CESS	1,961-00
	Total	4,57,998-00
b) Cost of payments/stores or other materials supplied now made recovery of	Total Deductions	4,57,998-00
Amount paid on this bill by chuque/cash	Cheque	14,89,623-00
	Bill amount	19,61,531-00
5) Balance being unpaid value of work done held in reserve		
6) Deduct cash of advance made on divisional/sub divisional cash book		
7) Net amount due to or from contractor		

UN ADJUSTED ITEMS

8) Advance to contractor for materials to site(as detailed within)

9) Value of government materials supplied

TOTAL AMOUNT UN-ADJUSTED

Contractor's signatures

Received Rs----------(in words)----------

For use in the Executive Engineer's office----------

of payment as per memorandum (in final settlement of all demand)

Witness

1)

2)

Dated signature of contractor paid by me chuque No dated

Cash Rs

Date — Initials of officer making payment

Reciept Stamp

Audited & Admitted For Rs. 19,61,531/-

By Ch Rs. 14,89,623/- (in Words) .....

And by Adjustment

For Rs. 4,57,998/-

Accounts Superintendent

Exe Engineer
Exe B.B.M.P. Bangalore

Sl No	Items grouped under Sub-heads and sub-works of the estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate	Amount	Qty	Cost
1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation. Geophysical investigation of existing Ground Wide in the vicinity, to qualify 1.0 meter in consolidated formation for proper setting of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and	Each BW			3.00	1800.00	5400.00	3.00	5400.00
2	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSI/2 & above CFM & above in all strata including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of rig and accessory vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding cost of casing pipes, collars and cap etc.) 29(1) PRED SR 2006-07 and as per with all lead and lift complete as per	Rmtr					0.00	0.00	0.00
	0 to 50 m				150.00	300.00	45000.00	150.00	45000.00
	50 to 100 m				150.00	390.00	58500.00	150.00	58500.00
	100 to 150 m				150.00	430.00	64500.00	150.00	64500.00

	150 to 200 m				150.00	450.00	67500.00	150.00	67500.00
	200 to 250 m				150.00	540.00	81000.00	150.00	81000.00
	250 to 300 m				143.90	570.00	81966.00	143.80	81906.60
2	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts. both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection and (including of all taxes) as per corragandam with all lead and lift complete as per specification as per direction of Engineer	Rmtr			210.00	1325.00	278250.00	210.00	278250.00
3	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work with all lead and lift complete as per specification as per direction of Engineer incharge.	Rmtr			54.00	754.00	40716.00	54.00	40716.00
4	Providing and fixing 160mm Borewell Cap with all lead and lift complete as per specification as per direction of Engineer	Each			3.00	100.00	300.00	3.00	300.00

	Supply and delivery at site [illegible] Innova/ Kirloskar / Arjuna/ Calama make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for operation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required accessories such as suction, casing suction strainers sand guard Non return valve etc. complete . The pump and motor shall form an integral unit with all the required fittings 10.00	No				0.00	0.00	0.00	
	12.50 hp 20 stge				3.00	60084.36	180253.08	3.00	180253.08
6	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threadles at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part 1/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark No 3/08-09 2406/15.10.2008/ 50 mm dia including Collar Heavy Class	Rmtr			760.00	374.00	291720.00	780.00	291720.00
					110.00	130.00	14300.00	110.00	14300.00

	supplying and drawing 3 ... PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor conforming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 46/ I No. 30-B 4.0 Sqmm mm of 36 strands 0.3mm dia Group - A KPWD Electrical SR 2007-08 3/2008-09 4538/19.01.2009 ...	Mtr				1620.00	150.00	243000.00	1620.00	243000.00
8	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) (As per rate approved KUWS & DB for	No				3.00	3000.00	9000.00	3.00	9000.00
9	Supplying and fixing 20"x20"X2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.. P No. 30/ I No. 2/f KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per	No				3.00	284.00	852.00	3.00	852.00
10	Supplying of LTUG cable having aluminium conductor PVC insulated sheathed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class,P No. 67/ I No. 10(d) 4 core 16 Sqmm KPWD Electrical SR 2007-08 with all leads and lift complete as per	Mtr				74.80	150.00	11220.00	74.80	11220.00

11	Labour charges for laying 1.1 KV class UG cable (PWD Electrical SR-1999-2000, P-68 /I.No.11a) KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer	Mtr			74.80	8.00	598.40	74.80	598.40
12	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 P No. 68/ L No. 12-d KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer	Mtr			60.40	60.00	3624.00	60.40	3624.00
13	Supplying and fixing of Class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 69/ I No.15-A KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer	Mtr			12.00	1950.00	23400.00	12.00	23400.00
14	Supplying and fixing L.T. cast iron pot head suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No. 69/ I No. 16-b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification as per direction of Engineer	No			3.00	250.00	750.00	3.00	750.00

15	Supplying, fixing, wiring, [illegible] electrode for grounding conduits, LC cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150 mm abround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia. (PWD Electrical SR-1999-2000, P-66, I.No.7)	No			3.00	1940.00	5820.00	3.00	5820.00
16	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden panel using necessary nuts, bolts and washer etc., complete.... P No. 30T No 3b KPWD Electrical SR 2007-08 with all lead and lift complete as per specification	No			18.00	99.00	1782.00	18.00	1782.00
17	Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications,with all lead and lift complete as per specification as per direction of Engineer	No			3.00	1111.00	3333.00	3.00	3333.00
18	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No. 937 I, with all lead and lift complete as per specification as per	No			3.00	200.00	600.00	3.00	600.00

19	Supplying and fixing 50mm G.I. X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete with all lead and lift complete as per specification as per	No			12.00	80.00	960.00	12.00	960.00
20	Supplying shunt capacitor confirming to IS 2834, 3 phase 400/400 volts grade for power factor improvement of rotating machinary, capacitorin KVAR rating Nos. 2KVAR	No			3.00	350.00	1050.00	3.00	1050.00
21	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing material/wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications with all lead and lift complete as per specification as per	no			3.00	1000.00	3000.00	3.00	3000.00
22	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.35 P.No. 39, L.No. 390 KPWD Electrical SR 2007-08 with all lead and	Sqm.cm			70200.00	0.33	23166.00	70200.00	23166.00

	supplying and delivery at ... Essen/ ... Star/ Sun-shine/ Adarsh/ GK Controls best indigenous make combined energy meter cum control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable purpose. 15HP to 30 HP Star Delta Starter SERDED Rate with all lead and lift complete as per specification as per direction of Engineer	No			3.00	11000.00	33000.00	3.00	33000.00
24	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m specification, specification No. KBS 2.1(b) / 2.5.5, No. 5/ Item No. 2.4/ PWD SR 2010-11 with all lead and lift	Cum			75.94	185.00	14048.90	75.94	14048.90

	Providing and installation at [illegible] works P.V.C Pipes including cost of pipes and specials and including lowering into trenches, laying true to line, level and perfect making at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth available from the excavation Etc., Page No.3 item No.4.2 PRE SR2008-[illegible]	Rmtr			225.00	155.00	34875.00	225.00	34875.00
26	KSRB-2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50mtr, and lift upto 1.5m, including cost of all labour complete as per with all lead [illegible]	Rmtr			75.90 / 75.94	60.00	4556.40	75.90 / [illegible]	4556.40
27	KSRR 13.6.3-6 : Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications: Specification No. with all lead and lift complete as per specification	Each			10.00	1580.00	15800.00	10.00	15800.00
28	Lifting of submersible pump set	Each			7.00	700.00	4900.00	7.00	[illegible]
29	Transaction of pumping machineries	No.			7.00	540.00	3780.00	7.00	[illegible]
30	Repairs to rewinding of submersible pumpsets with copper insultion wire of suitble gauage as pumpset specil with gurantee of 6 months	No.			8.00	4300.00	34400.00	8.00	[illegible]
	B) Replacement of Motor						0.00	0.00	0.00
31	Stator (with one year	No.			7.00	5300.00	37100.00	7.00	[illegible]
32	Roter (with one year Guarantee) P No. 40/ I No. C(2) PRED SR (2008-09)	No.			8.00	3800.00	30400.00	8.00	[illegible]
33	Upper Flange P. No. 40 / I No. 3 PRED SR (2008-09)	No.			8.00	300.00	2400.00	8.00	[illegible]

	Lower Housing P. No. 40 / 1 No.5 PRED SR (2008-09)	No.			8.00	490.00	3920.00	8.00	3920.00
	Lower flange P. No. 40 / 1 No.6 PRED SR (2008-09)	No.			8.00	370.00	2960.00	8.00	2960.00
	Carbon Housing P. No. 40 / 1 No.7A PRED SR (2008-09)	No.			7.00	370.00	2590.00	7.00	2590.00
	Thrust bearing block assembly complete with Segment bearing pad P. No. 40 / 1 No.7B PRED SR (2008-09)	No.			8.00	500.00	4000.00	8.00	4000.00
38	Top Carbon /Ferrodo packing P. No. 40 / 1 No.7C PRED SR (2008-09)	No.			8.00	1550.00	12400.00	8.00	12400.00
39	Bearing (GunMetal) Centrifugal cast Aluminium Bronze, bearing bush. P. No. 40 / 1 No.9 PRED SR (2008-09)	No.			8.00	370.00	2960.00	8.00	2960.00
40	Motor Base with pin P. No. 41 / 1 No.11 PRED SR (2008-09)	No.			8.00	365.00	2920.00	8.00	2920.00
41	Re-erection charges of pumping machineries including overhauling and painting P. No. 40 / 1 No.15 PRED SR (2008-09)	No.			8.00	1000.00	8000.00	8.00	8000.00
42	Labour charges (overhauling only) P. No. 40 / 1 No.12 PRED SR (2008-09)	No.			8.00	490.00	3920.00	8.00	3920.00
43	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.						0.00	0.00	0.00
44	Pump Bowls P. No. 39 / 1 No.B1 PRED SR (2008-09)	No.			8.00	270.00	2160.00	8.00	2160.00
45	Intermediate piece (I.P) with IP leaded bronze bush P. No. 39 / 1 No.B2 PRED SR (2008-09)	No.			8.00	650.00	5200.00	8.00	5200.00
46	Oil Seal P. No. 39 / 1 No.B3 PRED SR (2008-09)	No.			8.00	100.00	800.00	8.00	800.00

SBR NO 56/15-16
2-9-2015

	Steel Bush P. No. No.B4 PRED SR (2008-09)	No.			8.00	110.00	880.00	8.00	880.00
	Guide vane P. No. 39 / I No.B5 PRED SR (2008-09)	No.			8.00	160.00	1280.00	8.00	1280.00
	Coupler (Shell moulded with aluminium and Bronze) P. No. 39 / I No.B6 PRED SR (2008-09)	No.			8.00	230.00	1840.00	8.00	1840.00
	g) Discharge outlet (D.O) Bearing D.O Steel Bush P. No. 39 / I No.7 RDED SR (2008-09)	No.			8.00	450.00	3600.00	8.00	3600.00
	h) D.O Bearing P. No. 39 / I No.B7 PRED SR (2008-	No.			8.00	80.00	640.00	8.00	640.00
	Steel Bush (D.O.Steel bush) P. No. 39 / I No.A7 PRED SR (2008-09)	No.			8.00	150.00	1200.00	8.00	1200.00
	Allen Screw P. No. 39 / I No.8 PRED SR (2008-09)	No.			8.00	70.00	560.00	8.00	560.00
	Supplying water through water tanker in ward no 04 of GWSSB approved rates.	L/s			415.00	330.00	136950.00	415.00	136950.00
	BESCOM Deposite charges				2.00	6400.00	12800.00	2.00	12800.00
	TOTAL						197480.00		197480.00

Asst. Engineer
Ward no:04

Asst. Executive Engineer
Yelahanka New Town (W) Division
BBMP, Bangalore